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NOTICE OF ALLOWANCE AND FEE(S) DUE

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11/25/2005

DELIO & PETERSON, LLC 121 WHITNEY AVENUE NEW HAVEN, CT 06510

RECEIVED OIPE/IAP

DEC 0 1 2005

EXAMINER

GUTIERREZ, KEVIN C

ART UNIT

PAPER NUMBER

2851

DATE MAILED: 11/25/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771 684	02/03/2004	Christopher P. Ausschnitt	FIS92003042311S1	4817

TITLE OF INVENTION: METHOD OF PATTERNING PROCESS METROLOGY BASED ON THE INTRINSIC FOCUS OFFSET

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	02/27/2006

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

	Application No.	Applicant(s)		
	10/771,684	AUSSCHNITT, CHE	RISTOPHER P.	
Notice of Allowability	Examiner	Art Unit		
	Kevin Gutierrez	2851		
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	blication. If not include will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>10-20-05</u> .				
2. X The allowed claim(s) is/are <u>1-22</u> .				
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No		ation from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or Nation is deficient.	NOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.			
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date				
(b) including changes required by the attached Examiner' Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawii he header according to 37 CFR 1.121(ngs in the front (not the d).	e back) of	
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/CPaper No./Mail Date	5. Notice of Informal P 6. Interview Summary Paper No./Mail Da 7. Examiner's Amenda 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment		
ArB Perkey	→ William Perkey ^{⊃rima} ry Examiner			

Art Unit: 2851

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see page 11, 2nd paragraph, filed October 20, 2005, with respect to claims 1-20 have been fully considered and are persuasive. The objection to claim 7 and rejection of claims 1-20 has been withdrawn.

Allowable Subject Matter

2. Claims 1-22 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art does not teach nor render obvious a method for measuring dimensions of a first set of control patterns printed in a lithographic resist layers at two or more locations on or within each pattern that correspond to different optimum focus settings in combination with the rest of the limitations cited in the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following discloses an optical metrology system to

Application/Control Number: 10/771,684

Art Unit: 2851

examine a structure on a surface: Bischoff (US 2004/0239954) and Yoshitake et al (US

Page 3

2003/0121022).

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kevin Gutierrez whose telephone number is (571)-272-

5922. The examiner can normally be reached on Monday-Friday: 7:30 a.m. - 4:30

p.m..

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Judy Nguyen can be reached on (571)-272-2258. The fax

phone number for the organization where this application or proceeding is assigned is

571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kevin Gutierrez Examiner Art Unit 2851

November 16, 2005

Notice of References Cited Application/Control No. | Applicant(s)/Patent Under Reexamination AUSSCHNITT, CHRISTOPHER Examiner | Art Unit | Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-2003/0121022 A1	06-2003	Yoshitake et al.	716/21
*	В	US-2004/0239954 A1	12-2004	Bischoff, Joerg	356/635
	C	US-			
	D	US-			
	Е	US-			
	F	US-			
	G	US-			
	Н	US-			
	ı	US-			
	J	US-			
	К	US-			
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	0					
	Р					
	Q					
	R					
	S					
	Т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(571) 273-2885 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further cor indicated unless corrected by maintenance fee notification	pelow or directed otherwise	Patent, advance or in Block 1, by (a)	ders and noti) specifying	fication of maintenance fees a a new correspondence address	will be mailed to the current s; and/or (b) indicating a sep	correspondence address as arate "FEE ADDRESS" for	
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DELIO & PETER 121 WHITNEY AV NEW HAVEN, CT	VENUE			I hereby certify that t States Postal Service addressed to the Ma transmitted to the US	rtificate of Mailing or Tran his Fee(s) Transmittal is bein with sufficient postage for fin il Stop ISSUE FEE address PTO (571) 273-2885, on the	smission g deposited with the United st class mail in an envelope a above, or being facsimile date indicated below	
	•				10 (071) 273 2003, on the	(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	· · · · · · · · · · · · · · · · · · ·	FIRST NAME	D INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/771,684	02/03/2004		Christopher 1	P. Ausschnitt	FIS920030423US1	4817	
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EXAM	IINER	ART UN	IT	CLASS-SUBCLASS]		
GUTIERRE	Z, KEVIN C	2851		355-055000	_		
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Change of correspond	lence address (or Change of	Согтеѕропдепсе	(1) the na or agents	mes of up to 3 registered pate OR, alternatively,	nt attorneys ¹		
Address form PTO/SB/12	22) attached. ion (or "Fee Address" Indica		(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
PTO/SB/47; Rev 03-02 of Number is required.	or more recent) attached. Use	e of a Customer	2 registere	ed patent attorneys or agents. It name will be printed.	f no name is 3		
	RESIDENCE DATA TO B						
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion	elow, no assignee of of this form is NOT	data will app a substitute	ear on the patent. If an assign for filing an assignment.	nee is identified below, the o	document has been filed for	
(A) NAME OF ASSIGN	EE	(В) RESIDENC	CE: (CITY and STATE OR CO	UNTRY)		
Please check the appropriate	assignee category or catego	ries (will not be pri	nted on the p	oatent): 🔲 Individual 🔲 C	Corporation or other private gr	oup entity Government	
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	mall entity discount permitte	ed)	☐ A check in the amount of the fee(s) is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
	Copies		The Director is hereby authorized by charge the required fee(s), or credit any overnayment.				
Change in Entity Status	(from status indicated above	,	Deposit Acc	ount Number	(enclose an extra c	copy of this form).	
	MALL ENTITY status. See :	•	☐ b. Applic	cant is no longer claiming SMA	LL ENTITY status. See 37 C	FR 1.27(g)(2).	
The Director of the USPTO NOTE: The Issue Fee and Printerest as shown by the reco	is requested to apply the Issublication Fee (if required) vords of the United States Pate	ue Fee and Publicat vill not be accepted ent and Trademark	ion Fee (if ar from anyone Office.	ny) or to re-apply any previous e other than the applicant; a reg	ly paid issue fee to the applic sistered attorney or agent; or t	ation identified above. he assignee or other party in	
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Typed or printed name			······································	Registration	1 No		
This collection of information application. Confidentialing the completed application the completed applications.	on is required by 37 CFR 1.3 ty is governed by 35 U.S.C.	11. The information 122 and 37 CFR 1 O. Time will vary	n is required .14. This col depending up	to obtain or retain a benefit by llection is estimated to take 12 pon the individual case. Any c	the public which is to file (an minutes to complete, includi omments on the amount of ti	d by the USPTO to process) ng gathering, preparing, and me you require to complete	

this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/771,684	02/03/2004	Christopher P. Ausschnitt	FIS920030423US1	4817	
29505 7590 11/25/2005			EXAMINER GUTIERREZ, KEVIN C		
DELIO & PET	•				
121 WHITNEY AVENUE NEW HAVEN, CT 06510			ART UNIT	PAPER NUMBER	
,		2851			
			DATE MAILED: 11/25/200	5	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 110 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 110 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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